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(56) Documents Cited

GB 2298770 A US 5586402 A US 4702031 A
US 2061839 A

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INT CL⁷ A01K 97/12

Online: WPI, EPODOC, JAPIO, TXTEP1, TXTGB1,
TXTUS1, TXTUS2, TXTWO1

(54) Abstract Title

Fish bite indicator

(57) The indicator is secured to the butt of the fishing rod at all times whilst fishing. It is secured to the rod by a rod bracelet and Allen bolts. The Allen bolts screw through the Rod bracelet and into the connecting frame. The connecting frame locates a spindle on which a bellball casing rotates. The bellball casing houses tin inserts, which have intermittent opposite, staggered pressed steps. When the bellball is rotated by the fishing line small hollow tin balls which are situated inside the tin inserts, inside the bellball casing, are lifted and dropped causing audible noises. The acute "v" shaped groove around the bellball casing accommodates for different grade fishing line. The line is tensioned by a bobbin to ensure frictional contact between the ball casing and the line when the indicator is in use.

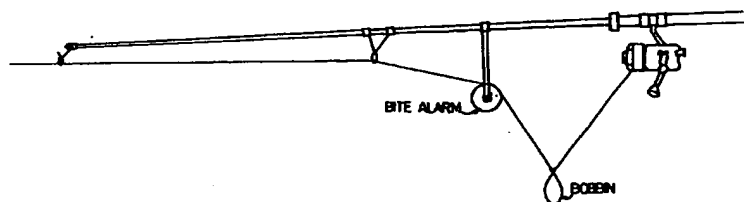


Figure 2 (In-use)

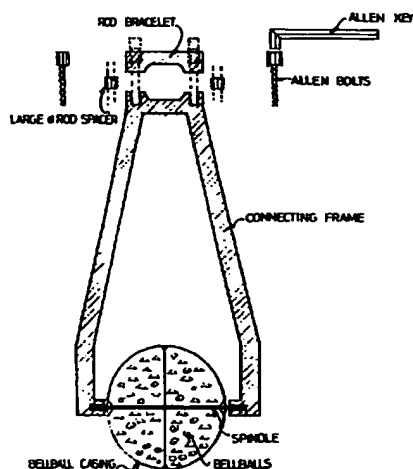


Figure 3

The claims were filed later than the filing date but within the period prescribed by Rule 25(1) of the Patents Rules 1995.

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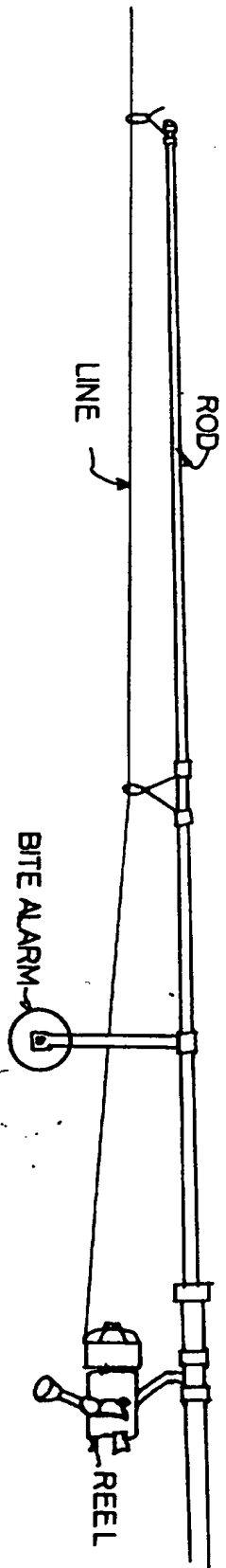


Figure 1 (Not in use)

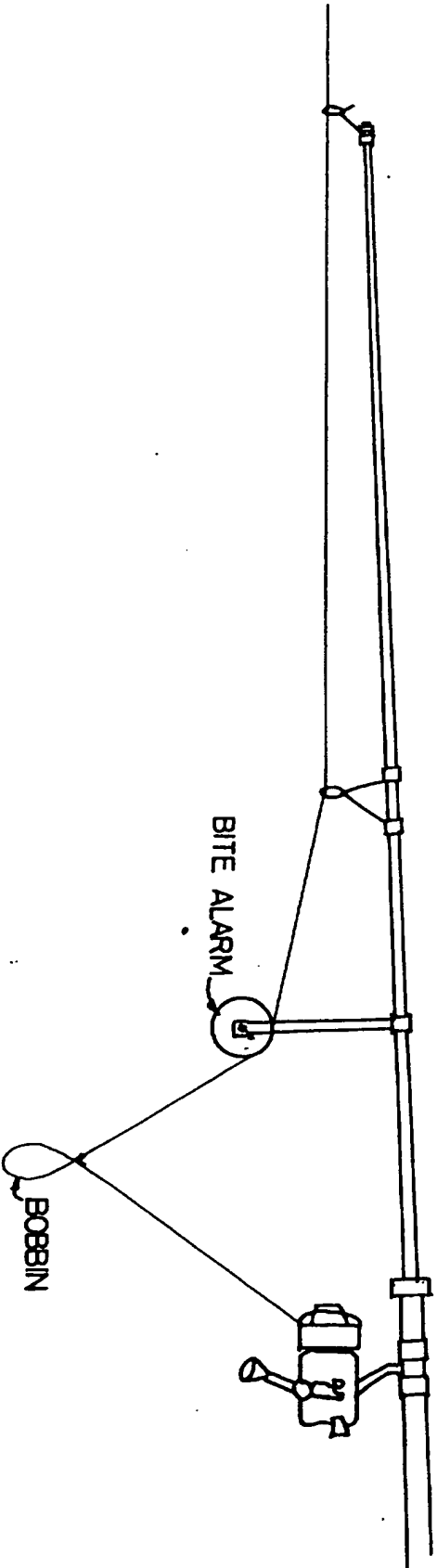


Figure 2 (In-use)

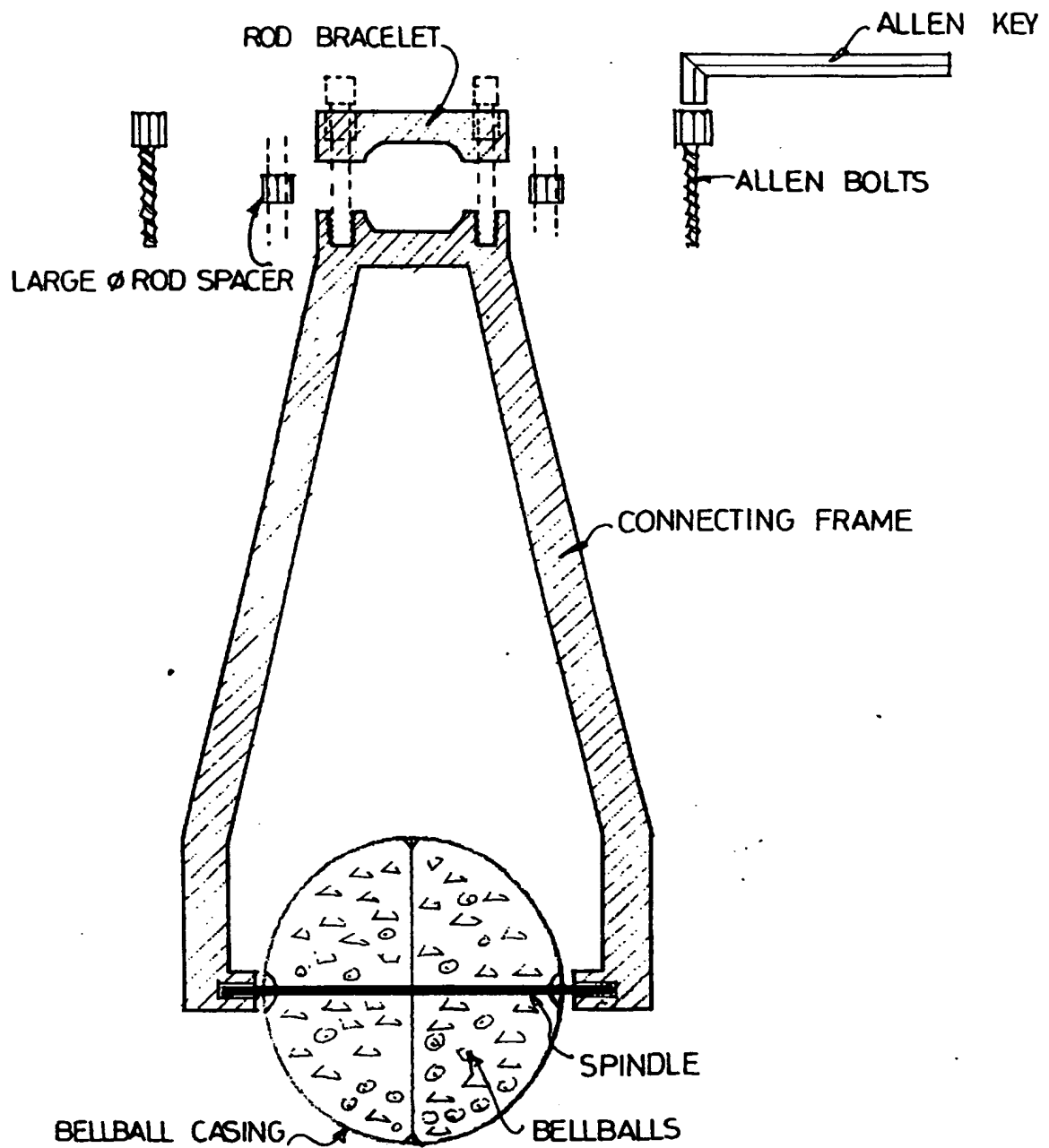


Figure 3

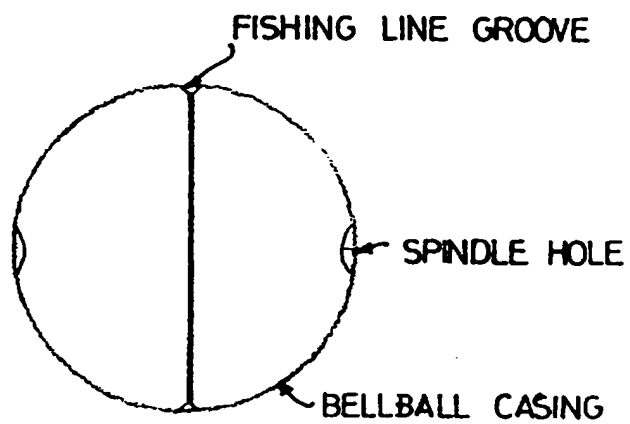


figure 4

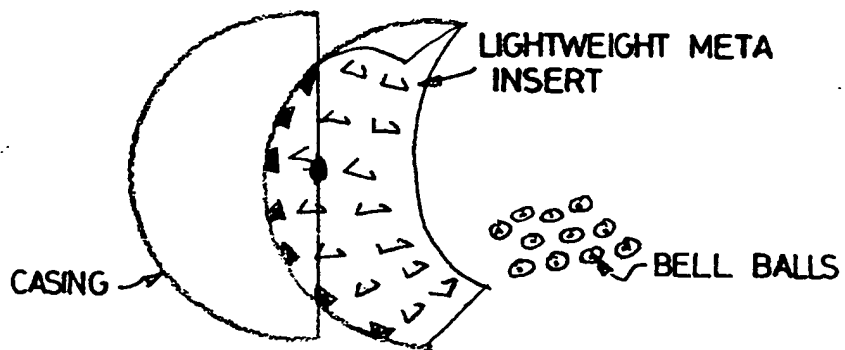


figure 5

DESCRIPTION OF PROJECT.

SURE STRIKE 3000

The Sure Strike 3000 is an invention to aid anglers (fishermen) to know when a fish is taking interest in the bait that they have presented. In short a "fishing bite alarm". The Sure Strike 3000 is unique as it actually fits onto the fishing rod. It fits between the rod butt and the first "eye". When in use the fishing line from the reel (fixed to the butt of the fishing rod) will be weighted by a "bobbin" where the line will then run through the "line grove" of the Strike 3000 and out through the first eye of the fishing rod, it will then continue through all the other eyes on the rod onto whichever fishing rig the particular angler is using (Refer to Fig 2 on drawings sheet 1/3)

The Sure Strike 3000 works both on a "normal bite" and a "drop bite". The normal bite is where the fish pulls the bait and in turn the fishing line. The drop "bite" is where the fish brings the bait back towards the fishing rod and in turn the weight of the bobbin draws the slack line backwards, should the angler feel the need to "strike" (try to hook the fish) then the Sure Strike 3000 stays attached to the rod. (Please refer to Fig. 1 / Not in use, or drawings sheet 1/3) and does not interfere in any way as the angler uses the rod in whichever way necessary to land the fish.

The Sure Strike 3000 works on basic but efficient principles. The Sure Strike 3000 attaches to the fishing rod via a bracelet and allen bolts (both made from plastic or a plastic composite for lightness) please refer to Fig.3 drawing sheet 2/3. The connecting frame (which is now attached to the fishing rod via the "bracelet" securing a spindle (also plastic) of which a circular ball (bell ball casing) with a V shape grove round its circumference which accommodates different grade fishing line, rotates upon. The circular ball is also made of plastic. The plastic ball casing with "V" grove (which shall now be refereed to as the bell ball casing) please refer to drawing Figure 3 sheet 3/3. Houses a thin tin sheet with pressed steps at staggered intervals. The steps shall not just only be staggered but also intermittently opposite, ie. The ledges of the steps not all to be facing one particular way. The reason for this is to ensure that whichever way the bell ball casing rotates the steps shall lift the bell balls (lightweight hollow tin balls contained inside the bell ball casing) and cause the bell balls to be lifted by the steps. As the casing continues to rotate (as dictated by the "pull or "drop of the fishing line as the fish bites) the bell balls fall, they in turn cause audible noises which alert the angler that a fish is showing interest in the bait that they have presented. The angler can then strike, "Sure" that they have a good chance of hooking the fish.

Claims

1. The Sure Strike 3000 is fishing bite alarm, which remains seated to the "butt of a fishing rod at all times whilst fishing".
2. The Sure Strike 3000 remains secured to the butt of the fishing rod as claimed in claim one via a plastic or plastic/composite rod bracelet and plastic/ plastic composite allen bolts.
3. The connecting frame which is secured to the butt of the fishing rod via the rod bracelet as claimed in claims 1 locates the spindle which the bell ball casing rotates.
4. The bellball casing which rotates on the spindle as claimed in claim 3, is a hollow plastic ball with two precise wholes both sides, which allows the spindle through and subsequently, the bellball casing to rotate freely on.
5. The bellball casing, which rotates on the spindle as claimed in claim 3 and 4 also, has a fine "v" shaped groove around its circumference, which accommodates different grade fishing line. The bellball casing moves in the direction of the fishing line.
6. The bellball casing also houses a lightweight tin insert with pressed steps at staggered, intermittent, opposite intervals. When rotated, along with the bellball casing causes the bellballs to be lifted and dropped by the steps causing audible noises.
7. The bellballs are light hollow tin balls which are located inside the stepped, tin inserts, inside the bellball casing as claimed in claim 6.
8. The sure strike 3000, as herein described and illustrated in the accompanying drawings, figures 1,2,3,4 and 5.



Application No: GB 0003563.4
Claims searched: 1-8

Examiner: Paul Jenkins
Date of search: 26 March 2001

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.S): A1A (A4)

Int CI (Ed.7): A01K 97/12

Other: Online: WPI, EPODOC, JAPIO, TXTEP1, TXTGB1, TXTUS1, TXTUS2, TXTWO1

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB2298770 A (CALLISON) Whole document relevant	1 & 2
X	US 5586402 (BRENT) See figures 2 & 3	1 & 2
A	US 4702031 (SOUSA)	-----
A	US 2061839 (KUCEWICZ) See all figures and note the use of a bell as an alarm	-----

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.